

ABSTRACT

A machine for working sheet metal parts, in particular a flanging machine, and a system for driving the machine

The machine (20) comprises: a supporting structure (24, 26); a movable unit (28) mounted on the supporting structure (24, 26) so that it can translate along a first working direction (Z) and along a second direction (X) towards and away from a stationary workpiece-carrying structure (88); a tool-carrying unit (10, 11, 12) carried by the movable unit (28); and a driving system for controlling the movement of the movable unit (28) in the working direction (Z). The driving system includes a first motor unit (60) for controlling the rotation of a driving shaft (62) and a mechanism for converting the rotational movement of the shaft (62) into the translational movement of the movable unit (28). The motion conversion mechanism comprises a cam member (76), which is rotatably mounted on the movable unit (28) and the rotation of which is controlled by the driving shaft (62), and a roller member (78) which is rotatably mounted on the supporting structure (24, 26) and on which the cam member (76) rests. The cam member (76) has an outline (76a) arranged to co-operate with the roller member (78), which is suitably shaped so as to cause the movable unit (28) to move along the working direction (Z) with a predetermined movement law upon rotation of the cam member (76).

(Figure 6)